

AUTHORS Du,X., Poltorak,A., Wei,Y. and Beutler,B.
 TITLE Three novel mammalian toll-like receptors: gene structure,
 expression, and evolution
 JOURNAL Eur. Cytokine Netw. 11 (3), 362-371 (2000)
 PUBMED 11022119
 REFERENCE 7 (residues 1 to 1049)
 AUTHORS Rock,F.L., Hardiman,G., Timans,J.C., Kastelein,R.A. and Bazan,J.F.
 TITLE A family of human receptors structurally related to Drosophila Toll
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 95 (2), 588-593 (1998)
 PUBMED 9435236
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The
 reference sequence was derived from [AF245702.1](#) and [AF240467.1](#).

Summary: The protein encoded by this gene is a member of the
 Toll-like receptor (TLR) family which plays a fundamental role in
 pathogen recognition and activation of innate immunity. TLRs are
 highly conserved from Drosophila to humans and share structural and
 functional similarities. They recognize pathogen-associated
 molecular patterns (PAMPs) that are expressed on infectious agents,
 and mediate the production of cytokines necessary for the
 development of effective immunity. The various TLRs exhibit
 different patterns of expression. This gene is predominantly
 expressed in lung, placenta, and spleen, and lies in close
 proximity to another family member, TLR8, on chromosome X.

FEATURES Location/Qualifiers
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 /map="Xp22.3"
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 transduction mechanisms]"
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 /db_xref="CDD:21971"
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 structures, Signal transduction mechanisms]"
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 /replace="V"
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 Region 498..>654
 /region name="Ras suppressor protein (contains

Region

CDS

ORIGIN

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121 rsfsgltylk slyldgnqll eipqglppsl qllsleanni fsirkenlte lanieilylg
181 qncyyrnpy vsysiekdaf lnltklkvls lkdnntavp tvlpstltel ylynnmiaki
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901 dpavtewvla elvakledpr ekhfnlclee rdwlpqgpvl enlsqsiqls kktvfvmtdk
961 yaktenfkia fylshqrlmd ekvdviiilf lekpfqkskf lqlrkrlcgs svlewptnpg
1021 aphyfwqcln nalatdnhva ysqvfketv
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Sequence



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